

CLAIM LISTING

Claims 1-72 (Cancelled)

73. (Currently Amended) A transgenic mouse whose genome comprises a first transgene comprising a DNA sequence encoding p25 operably linked to an inducible promoter, and a second transgene comprising a DNA sequence encoding an inducer operably linked to a tissue-specific calcium-calmodulin-dependent kinase II promoter.

74. (Original) The transgenic mouse of claim 73, wherein the inducible promoter is a tetracycline responsive element.

75. (Cancelled)

76. (Original) The transgenic mouse of claim 73, wherein the inducer is a tetracycline-responsive transcriptional activator.

77. (Original) The transgenic mouse of claim 73, wherein the p25 is expressed in the brain.

78. (Original) The transgenic mouse of claim 73, wherein the p25 is expressed in the forebrain.

79. (Original) The transgenic mouse of claim 73, wherein the p25 is a murine p25.

80. (Original) The transgenic mouse of claim 73, wherein the p25 is a human p25.

81. (Original) The transgenic mouse of claim 73, wherein the transgenic mouse over-expresses p25 when compared to mouse not expressing the transgene comprising a DNA sequence encoding p25.

82. (Original) The transgenic mouse of claim 73, exhibiting one or more features selected from the group consisting of progressive neurodegeneration, tau aggregation, neurofibrillary tangle formation, aberrant cyclin-dependent kinase 5 activity, neuronal loss in the cerebral cortex, neuronal loss in the hippocampus, severe brain atrophy, reactive astrogliosis, caspase-3 activation, up-regulation of C99, up-regulation of beta-amyloid, tau

hyperphosphorylation, amyloid precursor protein phosphorylation, and amyloid precursor protein hyperphosphorylation.

83. (Original) The transgenic mouse of claim 81, wherein the amyloid precursor protein phosphorylation or the amyloid precursor protein hyperphosphorylation occurs at one or more amino acid residues selected from the group consisting of tyrosine 653, serine 655, threonine 668, serine 675, tyrosine 682, threonine 686 and tyrosine 687.

84. (Original) The transgenic mouse of claim 73, exhibiting one or more behavioral symptoms of Alzheimer's disease.

85. (Currently Amended) A cell line established from the transgenic mouse of claim 73, wherein the cell line comprises a cell having a genome comprising a first transgene comprising a DNA sequence encoding p25 operably linked to an inducible promoter, and a second transgene comprising a DNA sequence encoding an inducer operably linked to a ~~tissue-specific~~ calcium-calmodulin-dependent kinase II promoter.

Claims 86-100 (Cancelled)